## IN THE CLAIMS

## Please amend the claims as follows:

Claim 1 (Currently Amended): A method of operating a mobile telephone (1) in a cellular telephone communications system in which a plurality of service providers provide respective alternative communications channels (80,81,82,83)[[;]] comprising the steps of [[;]]:

storing routing information in a look-up table (122; 134,135; 900,1000) of the mobile telephone such that the table is populated with data in the form of preferred route codes, each preferred route code being representative of a preferred route for connection to a respective call destination;

originating an outgoing telephone call by the input of user generated call destination information;

accessing the look-up table using an address determined at least in part by the call destination information to obtain a selected preferred route code;

selecting one (83) of the communication channels in accordance with the preferred route code; and

establishing communication for the outgoing telephone call for a call destination corresponding to the call destination information via the selected communication channel of a corresponding selected service provider (4C);

periodically scanning received transmissions to identify available communications

channels for which the mobile telephone has functional capability and attempting to complete

a registration procedure for each available channel;

wherein said selecting comprises selecting from those available channels in respect of which registration is completed.



Claim 2 (Currently Amended): A method as claimed in claim 1 wherein the preferred route codes comprise the results of a route selection decision by a control centre (7) remote from the mobile telephone.

Claim 3 (Original): A method as claimed in claim 2 wherein the decision is based at least in part on least-cost.

Claim 4 (Previously Presented): A method as claimed in claim 2 wherein the decision is based at least in part on performance of at least one network selected in accordance with the preferred route.

Claim 5 (Currently Amended): A method as claimed in claim 1 wherein the preferred route codes further determine a choice of a further network (5A,5B,5C) for forward connection between a network (8A) of the service provider of the selected communication channel and the call destination (2) via the further network.

Claim 6 (Original): A method as claimed in claim 5 wherein the control centre collates billing information in respect of services provided by the service provider and one or more further service providers of the further networks in facilitating the making of the call to the call destination.

Claim 7 (Currently Amended): A method as claimed in claim 5 wherein the mobile telephone adds a prefix code (50) to the user generated call destination information.

Claim 8 (Currently Amended): A method as claimed in claim 7 wherein the prefix code includes a customer identification field (52) containing user specific identification data.

Claim 9 (Currently Amended): A method as claimed in of claim 7 wherein the prefix code includes a charging information field (51) for identifying a control entity (7) to be billed by one or more service providers corresponding to the selected network connection route.

Claim 10 (Canceled).

Claim 11 (Currently Amended): A method as claimed in claim 1 10 including the step of further comprising electing (64) from the available channels a home channel (81) for receipt of incoming calls.

Claim 12 (Currently Amended): A method as claimed in claim 1 10 including the step of further comprising electing (65) from the available channels in respect of which registration is completed an update receiving channel (80) for receipt of updating information broadcasts.

Claim 13 (Currently Amended): A method as claimed in claim 1 wherein the lookup table (1000) is stored in a portable storage medium (505) removably installed in the mobile telephone.

Claim 14 (Currently Amended): A method as claimed in claim 13 wherein the storage medium is a smart card (505).

Claim 15 (Currently Amended): A method as claimed in claim 13 wherein the portable storage medium is a SIM (subscriber identity module) card (505) which also stores subscriber specific data for identification and authentication purposes.

Claim 16 (Previously Presented): A method as claimed in claim 13 wherein the lookup table is populated with an initial set of data before installation of the storage medium in the mobile telephone.

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Claim 17 (Currently Amended): A method as claimed in claim 1 including the step of <u>further comprising</u> periodically updating the data stored in the look-up table by receiving data blocks each containing a respective portion of updated data and, for each received data block, overwriting a corresponding portion of the existing data with updated data from the received block.

Claim 18 (Currently Amended): A method as claimed in claim 1 wherein the lookup table (900) comprises:

a routing table (1101) containing the preferred route codes;

a carrier selection table (1102) containing, for each preferred route code, a list in order of priority of carrier selections to be used, subject to availability; and

a carrier access table (1103) containing, for each carrier selection, a channel selection identifying a communications channel provided by a service provider of the mobile telephone system and a prefix code to be added to the dialled dialed number identifying a further network for routing the call.

Claim 19 (Currently Amended): A method as claimed in claim 18 wherein the lookup table further comprises a carrier availability table (1104) containing information indicating which of the channels are currently available.

Claim 20 (Currently Amended): A method as claimed in claim 19 wherein the step of accessing the look-up table comprises:

addressing (1203) the routing table to obtain a preferred route code;

using the preferred route code to address (1204) the carrier selection table to obtain a list of carrier selections;

addressing (1205) the carrier access table using the first carrier selection on the list to obtain the prefix code and channel selection data for the first channel selection; and

addressing (1206) the carrier availability table using the channel selection data to determine (1207) if the first carrier selection is one of the available channels in respect of which registration is completed and, if so, initiating (1200) the call to the call destination using the prefix code via the channel selection data for the first carrier selection.

Claim 21 (Currently Amended): A method as claimed in claim 20 wherein, if the first carrier selection is determined (1207) not to be an available channel, the carrier availability table is addressed (1210) using channel selection data for a further carrier selection from the list and, if it is determined (1207) that the further carrier selection is an available channel, the call is initiated (1208) using the prefix code and channel selection data for the further carrier selection.



Claim 22 (Currently Amended): A method as claimed in claim 19 wherein the mobile telephone searches for available communications channels of the cellular telephone communications system and updates (66) the carrier availability table accordingly.

Claim 23 (Previously Presented): A method as claimed in claim 1 wherein the lookup table comprises default route data and wherein if accessing the look-up table with the call destination information fails to locate corresponding data defining a preferred route code, the preferred route code is derived from the default route data.

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Claim 24 (Previously Presented): A method as claimed in claim 1 wherein updating information for updating the look-up table is communicated to the mobile telephone via a selected one of the available communications channels.

Claim 25 (Original): A method as claimed in claim 24 wherein the updating information is transmitted using an SMS (short message service) protocol.

Claim 26 (Previously Presented): A method as claimed in claim 24 wherein the updating information is transmitted as a multipoint broadcast to a plurality of mobile telephones.

Claim 27 (Previously Presented): A method as claimed in claim 1 wherein the updating information is transmitted to the mobile telephone as a web page.

Claim 28 (Original): A method as claimed in claim 27 wherein the web page is transmitted using Wireless Application Protocol.

Claim 29 (Previously Presented): A method as claimed in claim 27 wherein the mobile telephone processes the web page to extract updating information; stores the extracted updating information in a buffer memory; and updates the look-up table with updating information read from the buffer memory.

Claim 30 (Currently Amended): A method as claimed in claim 1 wherein the updating information is communicated to the mobile telephone by detachably connecting the mobile telephone to a docking station (1300,1500) and transmitting the updating information to the mobile telephone via the docking station.

Claim 31 (Currently Amended): A method as claimed in claim 30 wherein the docking station (1300) is connected to receive a multipoint broadcast of updating information via a broadcast network (1301).

Claim 32 (Original): A method as claimed in claim 31 wherein the docking station receives updating information as signals multiplexed in a television transmission signal.

Claim 33 (Original): A method as claimed in claim 32 wherein the signal is multiplexed in the vertical blanking interval of the television transmission signal.

Claim 34 (Currently Amended): A method as claimed in claim 31 wherein the broadcasting network is an optical cable network (1301).

Claim 35 (Previously Presented): A method as claimed in claim 31 wherein the broadcasting network is a satellite television network.

Claim 36 (Currently Amended): A method as claimed in claim 30 wherein the docking station (1500) is connected to a telephone line (1501) and updating information is received from the control centre in response to making a telephone call request to the control centre via the telephone line.

Claim 37 (Currently Amended): A method as claimed in claim 36 wherein the docking station (1500) comprises a modem (1600) connected to the telephone line and which generates the telephone call request in response to user actuation of the docking station.

Claim 38 (Currently Amended): A method as claimed in claim 36 wherein the mobile telephone comprises a modem (1600) connected to the telephone line via the docking station and which generates the telephone call request in response to user actuation of the mobile telephone.

Claim 39 (Currently Amended): A method as claimed in claim 30 wherein the mobile telephone comprises an internal battery (1400) which is recharged by detachably connecting the mobile telephone to the docking station.

Claim 40 (Currently Amended): A method as claimed in claim 1 wherein the preferred route code determines a route via a packet switched network (1800) and comprises network address information defining at least one node (1801) of the network which is to be included in the selected route.

Claim 41 (Currently Amended): A method as claimed in claim 40 wherein the network address information defines at least one further node (1802) of the network which is not to be included in the selected route.

Claim 42 (Currently Amended): A method as claimed in claim 40 wherein the outgoing telephone call is transmitted as a packetised signal using a protocol in which such signals include a start address indicator interpreted by the network as being representative of a network address from which the call originates and <u>further</u> comprising the <u>further step of</u> transmitting the outgoing telephone call including start address information (1902) defined by the preferred route code.

Claim 43 (Original): A method as claimed in claim 42 wherein the start address information is representative of a start address which is different from the actual start address of the outgoing telephone call in the network.

Claim 44 (Previously Presented): A method as claimed in claim 1 wherein the telephone call is originated to communicate data comprising a type of data selected from a set of alternative types of data.

Claim 45 (Original): A method as claimed in claim 44 wherein the set of alternative types of data comprises voice data, image data and data formatted in accordance with an Internet protocol.

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Claim 46 (Previously Presented): A method as claimed in claim 43 wherein the lookup table stores respective preferred route codes for each of the types of data.

Claim 47 (Previously Presented): A method as claimed in claim 1 wherein the cellular telephone system comprises part of a packet switching network in which the mobile telephone constitutes a node of the network and wherein the call destination constitutes a further node of the network.

Claim 48 (Currently Amended): A mobile telephone (1) for use in a cellular telephone communications system in which a plurality of service providers provide respective alternative communications channels (80,81,82,83)[[;]],

the mobile telephone comprising[[;]]:

a look-up table (122; 134,135; 900,1000) storing routing information such that the table is populated with data in the form of preferred route codes, each preferred route code being representative of a preferred route for connection to a respective call destination;

input means (130) for originating an outgoing telephone call by the input of user generated call destination information;

accessing means (133) for accessing the look-up table using an address determined at least in part by the call destination information to obtain a selected preferred route code;

channel selecting means (300) for selecting one (83) of the communication channels in accordance with the preferred route code; and

communication means (302,137) for establishing communication for the outgoing telephone call for a call destination corresponding to the call destination information via the selected communication channel of a corresponding selected service provider (4C);

and

scanning means for periodically scanning received transmissions to identify available communications channels for which it has functional capability and for attempting to complete a registration procedure far each available channel;

wherein the channel selecting means is operable to perform selection from those available channels in which registration is completed.

Claim 49 (Currently Amended): A mobile telephone as claimed in claim 48 <u>further</u> comprising code generating means (131) operable to add a prefix code (50) to the user generated call destination information.

Claim 50 (Currently Amended): A mobile telephone as claimed in claim 49 wherein the prefix code includes a customer identification field (52) containing user specific identification data.

Claim 51 (Currently Amended): A mobile telephone as claimed in claim 49 wherein the prefix code includes a charging information field (51) for identifying a control entity (7) to be billed by one or more service providers corresponding to the selected network connection route.

Claim 52 (Canceled).

Claim 53 (Currently Amended): A mobile telephone as claimed in claim 52 48 including further comprising electing means for electing from the available channels in respect of which registration is completed a home channel (81) for receipt of incoming calls.

the storage medium is a smart card (505).

Claim 54 (Currently Amended): A mobile telephone as claimed in claim 53 wherein the electing means is further operable to elect from the available channels an update receiving channel (80) for receipt of updating information broadcasts.

Claim 55 (Currently Amended): A mobile telephone as claimed in claim 48 wherein the look-up table (1000) is stored in a portable storage medium (505) removably installed in the mobile telephone.

Claim 56 (Currently Amended): A mobile telephone as claimed in claim 55 wherein

Claim 57 (Currently Amended): A mobile telephone as claimed in claim 55 wherein the portable storage medium is a SIM (subscriber identity module) card (505) which also stores subscriber specific data for identification and authentication purposes.

Claim 58 (Currently Amended): A mobile telephone as claimed in claim 48 <u>further</u> comprising updating means (901,136) for periodically updating the data stored in the look-up table by receiving data blocks each containing a respective portion of updated data and, for each received data block, overwriting a corresponding portion of the existing data with updated data from the received block.

Claim 59 (Currently Amended): A mobile telephone as claimed in claim 48 wherein the look-up table (900) comprises:

a routing table (1101) containing the preferred route codes;

a carrier selection table (1102) containing, for each preferred route code, a list in order of priority of carrier selections to be used, subject to availability; and

a carrier access table (1103) containing, for each carrier selection, a channel selection identifying a communications channel provided by a service provider of the mobile telephone system and a prefix code to be added to the dialled dialed number identifying a further network for routing the call.

Claim 60 (Currently Amended): A mobile telephone as claimed in claim 59 wherein the look-up table further comprises a carrier availability table (1104) containing information indicating which of the channels are currently available.

Claim 61 (Currently Amended): A mobile telephone as claimed in claim 60 wherein the accessing means comprises:

means (500) for addressing the routing table to obtain a preferred route code;
means (500) for using the preferred route code to address the carrier selection table to
obtain a list of carrier selections;

means (500) for addressing the carrier access table using the first carrier selection on the list to obtain the prefix code and channel selection data for the first channel selection; and means (500) for addressing the carrier availability table using the channel selection data to determine (1207) if the first carrier selection is one of the available channels in respect of which registration is completed and, if so, initiating (1208) the call to the call destination using the prefix code via the channel selection data for the first carrier selection.

Claim 62 (Currently Amended): A mobile telephone as claimed in claim 61 wherein, if the first carrier selection is determined (1207) not to be an available channel, the means for

addressing the carrier availability table is operable to address the table using channel selection data for a further carrier selection from the list and, if it is determined that the further carrier selection is an available channel, to initiate the call using the prefix code and channel selection data for the further carrier selection.

Claim 63 (Currently Amended): A mobile telephone as claimed in claim 60 <u>further</u> comprising means (300) for searching for available communications channels of the cellular telephone communications system and means (136) for updating the carrier availability table accordingly.

Claim 64 (Currently Amended): A mobile telephone as claimed in claim 1 wherein the look-up table comprises default route data (1105) and wherein the accessing means is operable, if accessing the look-up table with the call destination information fails to locate corresponding data defining a preferred route code, to derive preferred route code from the default route data.

Claim 65 (Currently Amended): A mobile telephone as claimed in claim 48 <u>further</u> comprising means (901) for extracting updating information for updating the look-up table from signals communicated to the mobile telephone via a selected one of the available communications channels.

Claim 66 (Original): A mobile telephone as claimed in claim 65 wherein the updating information is extracted from signals encoded using an SMS (short message service) protocol.

Claim 67 (Currently Amended): A mobile telephone as claimed in claim 66 wherein the extracting means (500) is operable to extract the updating information from data transmitted to the mobile telephone as a web page.

Claim 68 (Original): A mobile telephone as claimed in claim 67 wherein the extracting means extracts updating information from the web page using Wireless Application Protocol.

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Claim 69 (Currently Amended): A mobile telephone as claimed in claim 67 wherein the extracting means comprises a processor operable to process the web page to extract updating information; store the extracted updating information in a buffer memory (902); and update the look-up table with updating information read from the buffer memory.

Claim 70 (Currently Amended): A mobile telephone as claimed in claim 48 <u>further</u> comprising connecting means (1302) operable to detachably connect the mobile telephone to a docking station (1300,1500) and an interface (1406) for receiving the updating information transmitted in use to the mobile telephone via the docking station.

Claim 71 (Currently Amended): A mobile telephone as claimed in claim 70 cooperable in use with a docking station (1500) connected to a telephone line (1501) such that
updating information is received from the control centre in response to making a telephone
call request to the control centre via the telephone line; wherein the mobile telephone
comprises a modem (1600) connectable in use to the telephone line via the docking station
and which modem is operable to generate the telephone call request in response to user
actuation of the mobile telephone.

Claim 72 (Currently Amended): A mobile telephone as claimed in claim 48 wherein the preferred route code determines a route via a packet switched network (1800) and comprises network address information defining in use at least one node (1801) of the network which is to be included in the selected route.

Claim 73 (Currently Amended): A mobile telephone as claimed in claim 72 wherein the network address information defines in use at least one further node (1802) of the network which is not to be included in the selected route.

Claim 74 (Currently Amended): A mobile telephone as claimed in claim 72 <u>further</u> comprising means for transmitting the outgoing telephone call as a packetised signal using a protocol in which such signals include a start address indicator interpreted in use by the network as being representative of a network address from which the call originates and wherein the transmitting means is operable to transmit the outgoing telephone call including start address information (1902) defined by the preferred route code.

Claim 75 (Previously Presented): A mobile telephone as claimed in claim 48 and operable to output communications signals representative of a type of data selected from a set of alternative types of data.

Claim 76 (Original): A mobile telephone as claimed in claim 75 wherein the types of data comprise voice data, image data and data formatted in accordance with an Internet protocol.

Claim 77 (Previously Presented): A mobile telephone as claimed in claim 75 wherein the look-table stores respective preferred route codes for each of the types of data.

Claim 78 (Canceled).

Claim 79 (Currently Amended): A docking station as claimed in claim 78 77 operable to receive a broadcast of updating information via a broadcast network and <u>further</u> comprising a decoder (1401) for decoding signals multiplexed in the vertical blanking interval of a television transmission signal.

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Claim 80 (Currently Amended): A docking station as claimed in claim <u>77</u> <del>78 having</del> further comprising means for receiving updating information via a telephone line (1501)</del>.

Claim 81 (Currently Amended): A docking station as claimed in claim 80 further comprising a modem (1600).

Claim 82 (Currently Amended): A docking station as claimed in claim 81 <u>further</u> comprising means (1700) for initiating the generation of a telephone call via the telephone line requesting the transmission of updating information.

Claim 83 (Currently Amended): A portable storage medium for use in a mobile telephone, the storage medium storing a look-up table (1000) populated with data in the form of preferred route codes, each preferred route code being representative of a preferred route for connection to a respective call destination.

Claim 84 (Canceled).

Claim 85 (Previously Presented): A computer program comprising processor implementable instructions for carrying out a method of operating a mobile telephone as claimed in claim 1.

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Claim 86 (Previously Presented): A storage medium storing processor implementable instructions for carrying out a method of operating a mobile telephone as claimed in claim 1.

Claim 87 (Previously Presented): A communications signal comprising processor implementable instructions for carrying out a method of operating a mobile telephone as claimed in claim 1.

Claim 88 (Previously Presented): A communications signal comprising route selecting information contained in an outgoing telephone call signal in accordance with a method as claimed in claim 1.

Claim 89 (Canceled).